

SCANNING INFORMATION

USING A



SCANNER

D&T: CYNHYRCHION GRAFFIG

This information is about getting the best scan for the output.

There are some basic rules:-

INKJET PRINTERS.

Scan at **one third of output resolution.**

MONO LAZER PRINTERS.

Scan at the **output resolution**

ON SCREEN DISPLAY

Scan at **72 or 75 dpi.**

COMMERCIAL PRINTING

Scan at **twice linescreen resolution** used by the printer.

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COMMERCIAL PRINTING

Linescreen resolutions used by the printers.

Printed Matter	Linescreen resolution	Scanner Setting
NEWSPAPER	120 lpi	240 dpi
GLOSSY MAGAZINE	150 lpi	300 dpi
CHEAP MAGAZINE	120 lpi	240 dpi
ART BOOK	200 lpi	400 dpi

Scanning at higher resolution doesn't get a better image.

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Scanning can be done in **five different modes.**

LINE ART - BITMAP MODE - ONE BIT MODE.

Black and white line art only. Line drawings. Scanned image is black & white.

GREY SCALE - 8 BIT MODE.

Black and white photos. Shaded drawings. Scanned image uses 256 greys.

RGB COLOUR MODE.

Colour photos. Colour drawings. Scanned image uses millions of colours.

CMYK COLOUR MODE.

Colour photos. Colour drawings. Only use for images that are going to be commercially 4 colour printed. Scanned image uses millions of colours.

INDEX COLOUR MODE.

Use when scanning images for use on web sites. Scans use 256 colours.

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**Scanned images need to be the size that they
are going to be printed.**

YOU NEED TO SCALE THE SCAN.

An image 40x80_{mm} to be printed 80x160_{mm} at 150 lpi. on a 4 colour printer.
It needs to be scanned at 300dpi at **200%** using CMYK colour mode.
This will give a scan 80x160_{mm} @300dpi.

An image 40x80_{mm} to be printed 60x120_{mm} at 2400dpi on an inkjet printer.
It needs to be scanned at 800dpi at **150%** using RGB colour mode.
This will give a scan 60x120_{mm} @ 800dpi.

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The Scanning Process.

- 1 Know the size the scan will be printed.
- 2 Know the resolution the scan will be printed.
- 3 Clean the scanner glass.
- 4 Use the centre of the glass area not the edges.
- 5 Place the image for scanning straight on the glass.
- 6 Close the lid of the scanner
- 7 Select the scan mode, resolution and scaling factor needed.
- 8 Scan the image.
- 9 Save the image into a suitable folder on the computer system.

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You just can't grab any magazine or book and scan what you like.

Someone owns the rights to the images.

Virtually all magazines copyright the whole issue.

Photographs may be the copyright of the photographer.

Text will usually be the copyright of the author.

Advertisements are usually the copyright of the company that placed the advert.

The rule is:

IF YOU CAN'T GET PERMISSION, THEN DON'T USE IT.

There is copyright free material out there. Find it and use it.

NOTE: This is not the same as Royalty Free.